

AG/AMR Workshop Planning Committee (Provisional) Meeting #2

DATE: Wednesday, March 30, 2022

PARTICIPANTS: Tom Chiller, Sally Miller, Mervalin Morant, Julius Fajardo, Marin Brewer, Paige Waterman, Jeffrey Lejeune,

STAFF: Julie Liao, Liz Ashby, Claire Biffl, Justin Hammerberg

KEY DISCUSSION POINTS

1. NASEM Updates
 - a. Nominations package for this committee has been submitted
 - b. Next meeting is scheduled for Monday, April 4th 12pm EST
 - c. Schedule for next meetings will be shared with the committee via email
2. Agenda themes to add
 - a. Non-plant uses of fungicides (ex. In paint or in wood products) should be addressed in workshop – lay out every place that these fungicides are being used
 - i. Could add to day 1 overview of use
 - b. There is some antifungal use in companion animals that could be considered
 - c. Sector of industrial use of triazoles needs to be considered as a contributing factor to AMR
 - i. Someone from industrial sector should come talk to PC about how triazoles are being used
 - d. UN Environment Program recently released a [[HYPERLINK "https://www.who.int/news/item/02-03-2022-world-leaders-and-experts-call-for-action-to-protect-the-environment-from-antimicrobial-pollution"](https://www.who.int/news/item/02-03-2022-world-leaders-and-experts-call-for-action-to-protect-the-environment-from-antimicrobial-pollution)] It identified many waste streams (hospital waste, antibiotic manufacturing waste) that can end up with concentrations higher than therapies in water streams
 - e. [[HYPERLINK "https://www.compostingcouncil.org/"](https://www.compostingcouncil.org/)] – maybe we could hear about mitigation measures and how to reduce the spread of spores in compost and agricultural waste
 - i. Also involve flower farms and flower production representative to discuss stages of production and mitigation
 - ii. Dutch have experience with the floriculture issue – tulips – **Tom can reach out to contacts in Holland**
 - iii. **Kiersten Wise from Kentucky – Sally and Marin’s contact, Marin will reach out**
 - iv. **Julius will reach out to US Composting Council and the ornamental bulb industry sector**
 - f. [[HYPERLINK "https://link.springer.com/article/10.1007/s11157-021-09594-w"](https://link.springer.com/article/10.1007/s11157-021-09594-w)]
3. Agenda review – Day 2
 - a. More on integrated disease management needed
 - b. This is the day to dig deep into plant world

- c. How to manage fungal diseases in plants
- d. American Pathological Society – could provide overview on disease management
 - i. Carl Bradley could provide specifics about what IPM practices are being used for triazole practices
 - ii. Amy Charkowski
 - iii. Someone on Fungicide Resistance Action Committee (FRAC) could talk about IPM and disease management, or address AMR in plant pathogens and what they promote for management of AMR
 - iv. Pierce Paul – colleague of Sally, possible for a talk on field crops
 - v. [[HYPERLINK "https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6843326/"](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6843326/) \l":~:text=The%20use%20of%20fungicides%20against,used%20in%20fields%20%5B27%5D"]
- e. Right now, agenda has a US focus – this is a global issue
 - i. [[HYPERLINK "https://www.ippc.int/en/"](https://www.ippc.int/en/)] has international standards and guidelines – might be good to have someone talk about plant production and AMR globally
 - ii. Mat Fisher and/or Ana at CDC could speak on global resistance and clones
 - iii. Phil Taylor can speak on fungicide use in LMICs
- f. [[HYPERLINK "https://apps.who.int/iris/rest/bitstreams/1280853/retrieve"](https://apps.who.int/iris/rest/bitstreams/1280853/retrieve)]
- g. Surveillance needs to be its own section on Day 2
 - i. Walt Mahaffee is working on AFRI Aspergillus project, could provide a specific example of FRAME as a fungicide resistance tool to vine crops, he is also doing air surveillance for plant world
 - ii. Larry Madden could talk about sampling/epidemiology
 - iii. Karen Garrett at UF
 - iv. [[HYPERLINK "https://framenetworks.wsu.edu/"](https://framenetworks.wsu.edu/)]
- h. Economics of disease management should/could be its own topic
- i. Balance these topics with the issue of food security. Fungal infections are production-limiting diseases. We need to ensure an adequate level of food
 - i. There are non-ag people who think triazoles should be banned in plant ag, we need to convey the importance
- j. Mycotoxin issue can be rolled into food safety/security (fusarium head blight, eg)
- 4. Agenda review – Day 3
 - a. Poster session
 - i. Should focus on plant-based work, there are fewer opportunities for research sharing about plants than there are for human health
 - ii. How do we put out a call for plant research posters? How do we ensure people show up?
 - iii. If we can foster some kind of One Health networking between plant and human health that would be ideal
 - iv. Jeff has a few potential contacts to come with posters

- v. Consider virtual posters? Students/postdocs could submit 5-minute recordings but also present in person to encourage networking. We can include PDF posters on the workshop page that could include links to recordings on YouTube
 - b. FAO is developing an International FAO Antimicrobial Database for food and agriculture
 - collect isolates from food/ag
- 5. Next steps:
 - a. Think about revisions to Day 3
 - b. Reach out to relevant colleagues to gauge interest / expertise
 - c. Next meeting is Monday, April 4, 12pm EST